

ABSTRACT

An aircraft flight management system having a flight management computer that stores a pre-planned lateral route of flight of the aircraft comprising a plurality of successive waypoints to be overflowed, the next proximate waypoint being an active waypoint, a method providing a return-to-path maneuver in the event that the aircraft deviates from the pre-planned route, including selecting a new active waypoint, calculating a return-to-path route to overfly the new active waypoint, and selectively accepting the calculated return-to-path route.